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Previous Year Paper

Science - 2015



Multiple Choice Questions

1. Which one of the following is not a conductor of electricity?

- A. Saltwater
- B. Distilled water
- C. Vinegar
- D. Lime juice

Answer

2. Medium A is optically denser than Medium B. Which one of the following statements is true?

- A. Speed of light is same in both A and B
- B. Cannot be compared
- C. Speed of light is more in medium A than in medium B
- D. Speed of light is more in medium B than in medium A

Answer

3. We are not crushed under the weight of the atmosphere, because

- A. the pressure inside our body is less than atmospheric pressure
- B. the pressure inside our body is equal to the atmospheric pressure and cancels the pressure from outside
- C. the pressure inside our body is more than atmospheric pressure
- D. the pressure inside our body is more than atmospheric pressure and cancels the pressure from outside

Answer

4. A block of iron dropped in a vessel of water, sinks to the bottom. This is because

- A. the weight of the block is less than the weight of the water displaced by the block
- B. the density of water is more than the density of the block
- C. the vessel is not deep enough to allow the block to float
- D. the weight of the water displaced by the block is less the weight of the block

Answer

5. Which one of the following statements is incorrect?

- A. Generally, the voice of a man is shriller than that of a woman
- B. A bird makes a high pitched sound whereas a lion makes a low pitched roar
- C. A drum vibrates with a low frequency, therefore it produces a low pitched sound
- D. A whistle has a high frequency and therefore it produces a sound of higher pitch

Answer

6. There are two planets in our solar system which rotate from East to West. These planets are
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B. Uranus and Neptune
C. Mercury and Uranus

D. Venus and Uranus

Answer

7. The major excretory product in human beings is

- A. uric acid
- B. ammonium chloride
- C. urea
- D. ammonia

Answer

8. Which of the following process/processes destroy/destroys the magnetic properties of a bar magnet?

- 1. Cutting into two pieces
- 2. Heating
- 3. Beating
- 4. Sealing

- A. I, II and III
- B. I and IV
- C. Only I
- D. II and III

Answer

9. A VIIIth class student makes the statement.

"Heavy objects sink in water and light objects float."

How is the science teacher of the VIII class best advised to react?

- A. Present counter examples and arrange materials of different shapes, sizes and weights for the child to investigate
- B. Explain that heavy and light are relative terms
- C. Accept the statement as it indicates the child's ideas and needs to be respected
- D. Explain to the child that it is not the weight but the density of an object that determines whether it is going to sink or float

Answer

10. Which one among the following situations gives the students, the best opportunity of 'discovery learning'?

- A. Encouraging students to investigate factors affecting germination through experimentation
- B. Instructing students through team teaching on the topic of 'components of food'

C. Students being first shown the demonstration of germination of seed followed by a
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D. Elaborated and detailed session of programmed instruction on the topic of Study Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.
germination of seed

Answer

11. A teacher places a lighted candle on the table in the classroom. He later covers it with a jar.
1. The candle stops burning after some time.
 2. Air is required for keeping the candle burning.
 3. Oxygen is required for keeping the candle burning.

Of the above three statements

- A. All the statements are observations
- B. All the statements are inferences
- C. Only Statement I is an observation
- D. Statements I and II are observations

Answer

12. Which one among the following questions would be an 'open-ended' question?
- A. Why is it easier to roll a barrel than to slide it on a flat surface?
 - B. How do banked curves on roads prevent skidding?
 - C. Why do we slip on a banana peel?
 - D. What would happen if the force of friction ceased to exist?

Answer

13. Which one of the following statements is true about the 'laws' and 'theories' in science?
- A. Theories are found in biological sciences only and laws are found in physical sciences only.
 - B. Theories and laws are the same and perform the same function except that laws are briefer form of theories
 - C. Laws are generalized descriptions of the relationships among observable phenomena and theories are explanations for the observable phenomena
 - D. Theories become laws when validated

Answer

14. A science teacher wishes to assess her students on different process skills. Which one among the following tools would be the most appropriate for her purpose?
- A. Observation schedule
 - B. Paper-pencil test
 - C. Interview
 - D. Questionnaire

Answer

15. Which one of the following should not be an aim of science education at the upper primary level?
- A. Inculcating values

B. Presenting facts of science to the learners
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D. Nurturing the curiosity and cultivation of scientific temper

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16. How could learning be made more meaningful for students of class VII by the teacher while teaching the topic 'Save Water'?

- A. Asking students to interview people in their colony about water consumption and carry out 'Water Audit'
- B. Conducting a quiz competition
- C. Asking students to design posters
- D. Asking students to write an essay

Answer

17. A teacher before beginning to teach 'digestion' to class VI students provides them with the outline diagram of a human body and asks them to draw all parts, through which they think the food would travel from the mouth when they eat.

What could be the teacher's purpose in asking this question?

- A. To investigate students' prior ideas related to human body and digestion so that future teaching-learning sessions can be accordingly planned
- B. To find out which students have read the topic in advance and come prepared for the class and grade them accordingly
- C. To evaluate students' drawing skills as drawing diagrams is an important skill in life sciences
- D. To judge students' understanding of the digestive system and grade them accordingly

Answer

18. For an effective discussion in class VII on the topic, "Why smoke rises up?" A science teacher should

- 1. discourage questions during the discussion.
 - 2. provide a common platform to the learners.
 - 3. acknowledge learners' responses to sustain their interest
 - 4. summarize and assess the learner's ideas at the end of discussion
- A. Only IV
 - B. III and IV
 - C. I and II
 - D. II, III and IV

Answer

19. You have two test tubes A and B. Test tube A contains a paste of turmeric whereas test tube B contains an aqueous solution of phenolphthalein. On adding a few drops of dilute hydrochloric acid to these test tubes the contents of

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Answer: Both would appear red

B. A would appear red while those of B would remain colorless

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C. A would remain yellow while those of B would appear pink

D. A would remain yellow while those of B would remain colourless

Answer

20. Anita prepared a fresh solution of sodium hydroxide in a test tube. She dropped a small piece of aluminum foil into it and then brought a burning matchstick near the mouth of the test tube. She hears a pop sound. The pop sound indicates the presence of

- A. hydrogen gas
- B. aluminum gas
- C. water gas
- D. oxygen gas

Answer

21. Which one of the following takes place when water transforms from liquid to gaseous phase?

- A. Distance between the particles change
- B. The color of the particles change
- C. Size of the particles change
- D. Structure of the particles change

Answer

22. Which fuel has the highest calorific value from among the following?

- A. Diesel
- B. Hydrogen
- C. Coal
- D. Petrol

Answer

23. Match the following

Column A

- 1. Lactobacillus
- 2. Protozoan
- 3. Rhizobium
- 4. Virus

Column B

- 1. Nitrogen fixation
- 2. AIDS
- 3. Malaria
- 4. Curd formation

The correct matching is

A. A - 1

B - 2

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- B. A - 1
D - 4
C - 3
D - 2
C. A - 4
B - 3
C - 1
D - 2
D. A - 4
B - 1
C - 2
D - 3

Answer

24. Select the correct statement from among the following.

- A. Plants with green leaves only carry out photosynthesis
- B. Photosynthesis takes place only in leaves
- C. Irrespective of colour, all leaves carry out photosynthesis
- D. Plants can carry out photosynthesis even without chlorophyll

Answer

25. Reema tells her friend that Ladyfinger is a fruit. Her friend Shahana disagrees with her. Which one of the following statements is true?

- A. Ladyfinger has seeds, thus it is a fruit
- B. Ladyfinger has seeds, thus it is a vegetable
- C. Ladyfinger is a vegetable, hence it cannot be a fruit
- D. Ladyfinger is eaten in cooked form, hence it is a vegetable

Answer

26. Which hormone in our body helps us to adjust to stress when we are angry, embarrassed, or worried?

- A. Insulin
- B. Estrogen
- C. Thyroxine
- D. Adrenaline

Answer

27. Match the following

Column I

- 1. Root
- 2. Stem

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4. Fruit
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Column B

1. Groundnut
2. Apple
3. Sugarcane
4. Carrot

The given choices are

- A. A - 1
B - 4
C - 3
D - 2
- B. A - 3
B - 2
C - 4
D - 1
- C. A - 4
B - 3
C - 1
D - 2
- D. A - 2
B - 1
C - 4
D - 3

Answer

28. Which one of the following represents a group of human diseases caused by viruses?

- A. Measles, Polio, Typhoid
- B. Measles, Typhoid, Tuberculosis
- C. Measles, Chickenpox, Hepatitis-A
- D. Chickenpox, Malaria, Hepatitis-A

Answer

29. Which one of the following represents a group of autotrophs?

- A. Spinach, Mushroom, Tomato, Yeast
- B. Tulsi, Algae, Cuscuta (Dodder), Mushroom
- C. Algae, Spinach, Tomato, Banana
- D. Algae, Cuscuta (Dodder), Banana, Mango

Answer

30. Human Nutrition includes the nutrient requirement, mode of intake of food, and its utilization in

the body occurring in various steps which are

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2. Egestion

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3. Assimilation

4. Ingestion

5. Digestion

Arrange these steps in sequence as they occur inside the body

A. 5, 4, 3, 1, 2

B. 4, 1, 2, 3, 5

C. 1,2,3,4,5

D. 4,5,1,3,2

[Answer](#)